

# AMPHENOL D-SUBMINIATURE RIGHT ANGLE CONNECTORS—FRONT METAL SHELL

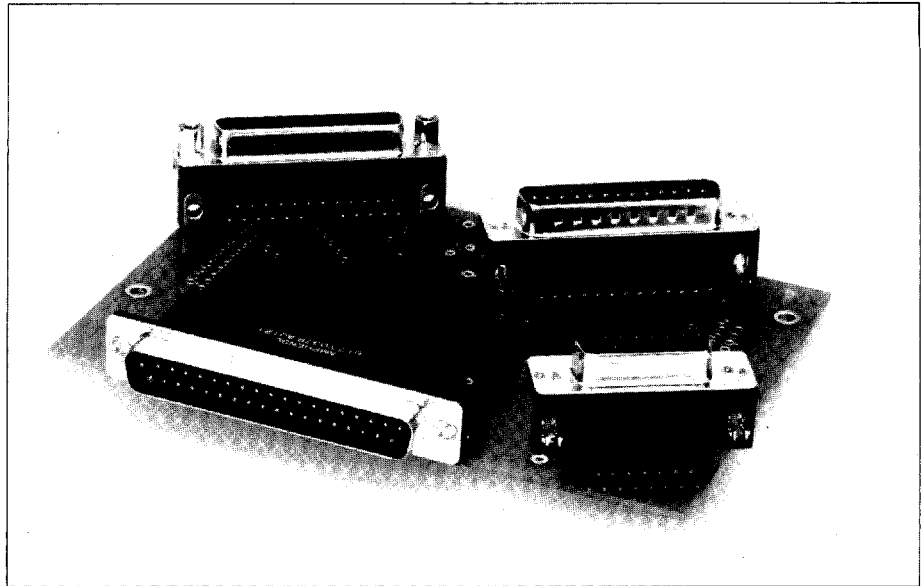
617 SERIES

Amphenol's 617 series right angle connectors are a state of the art design. The front metal shell helps reduce EMI/RFI emissions.

Contacts are selectively plated for high performance at a low cost.

617 series connectors are available in a variety of board mounting and grounding options including arrowhead p.c. board retention clips, #4-40 threaded hole, and clear holes. Front mounting holes are threaded and are available with hex screwlocks.

Filter connectors available—  
contact factory.



See next page for dimensions.

## SPECIFICATIONS:

**Temperature Range:**  
-55° C to +105° C

**Voltage Rating:**  
1000 VAC at sea level

**Current Rating:**  
5 AMP

**Dielectric:**  
Glass filled thermoplastic, black, UL 94 VO

**Shells:**  
Steel/tin plated

**Contacts:**  
Precision formed copper alloy

**Contact Plating:**  
Gold over Nickel

**Contact Forces:**  
Engagement 18 oz max  
Separation .75 oz min

## ORDERING INFORMATION:

Series

**617 - A - XXX - P - AJ - 1 - 21**

CODE .318 FOOT PRINT	CODE .590 FOOT PRINT	DESCRIPTION OF PC BOARD MOUNTING CHARACTERISTICS	REF. FIGURE NEXT PAGE
A		.120 diameter mtg hole w/ wrap-around ground strap	1
C		split arrowhead boardlock	2
D	U	.120 diameter mtg hole	3 & 5
J		# 4 - 40 threaded mtg hole	4
	Y	split circular boardlock	6

**Code Housing Characteristics**  
20 tin plated receptacle  
21 tin plated plug w/grounding indents

**Code Panel Mtg Options**  
1 #4-40 threaded hole  
2 #4-40 threaded hole  
w/female screwlock

**Code Contact Plating**  
AJ engagement area .000030" gold terminal  
end area .000100/.000200" tin/lead  
nickel underplate of .000050" nickel

BF engagement area .00003" gold flash  
terminal end area .000100/.000200" tin/lead  
nickel underplate of .000050" nickel

**Number of  
contacts**  
9, 15, 25, or 37

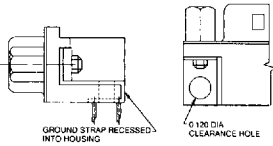
**Code Sex**  
P plug  
S socket

**AMPHENOL D-SUBMINIATURE  
RIGHT ANGLE CONNECTORS - FRONT METAL SHELL  
DETAIL OF P.C.B. MOUNTING CHARACTERISTICS**

**617 SERIES**

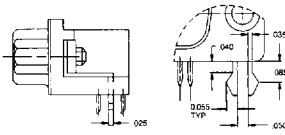
**Figure 1**

"A" mounting hardware  
.120 dia. hole w/ wrap-around groundstrap  
(.318 footprint)



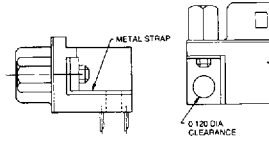
**Figure 2**

"C" mounting hardware  
split arrowhead boardlock  
(.318 footprint)

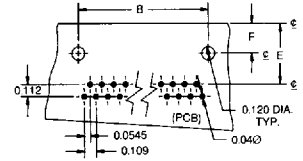


**Figure 3**

"D" mounting hardware  
.120 dia. mounting hole  
(.318 footprint)

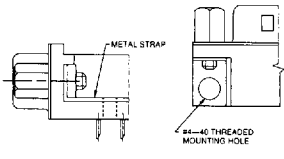


**.590 Footprint  
PCB Layout**



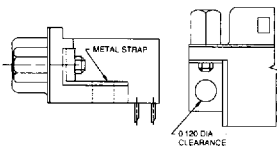
**Figure 4**

"J" mounting hardware  
#4-40 threaded hole  
(.318 footprint)



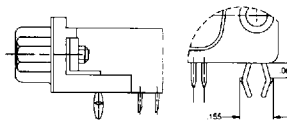
**Figure 5**

"U" mounting hardware  
.120 dia. mounting hole  
(.590 footprint)

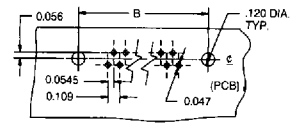


**Figure 6**

"Y" mounting hardware  
circular cross section arrowhead  
(.590 footprint)



**.318 Footprint  
PCB Layout**



Note: all mounting hardware accommodates PCB .063 (thickness)

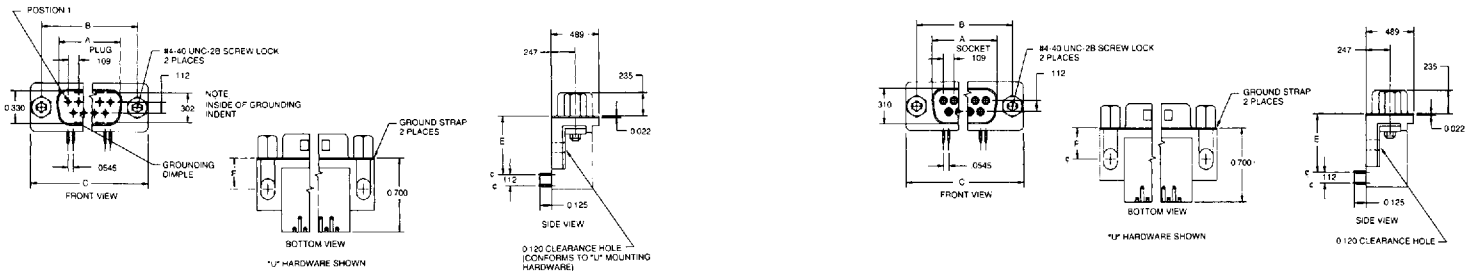
**DIMENSIONS**

# CONTACTS	A (RECEPTACLE)	A (PLUG)	B	C
9	0.642 (16,3)	0.663 (16,8)	0.984 (25,0)	1.221 (31,0)
15	0.970 (24,6)	0.991 (25,2)	1.312 (33,3)	1.539 (39,1)
25	1.510 (38,40)	1.531 (38,9)	1.852 (47,0)	2.088 (53,0)
37	2.159 (54,8)	2.179 (55,3)	2.500 (63,5)	2.730 (69,3)

**DIMENSIONS FOR FOOTPRINT, SIDE VIEW, AND BRACKET**

REF. STYLE CODE LETTER	E	F
A, C, D, J	0.318 (8,1)	0.375 (9,5)
U, Y	0.590 (15,0)	0.315 (8,0)

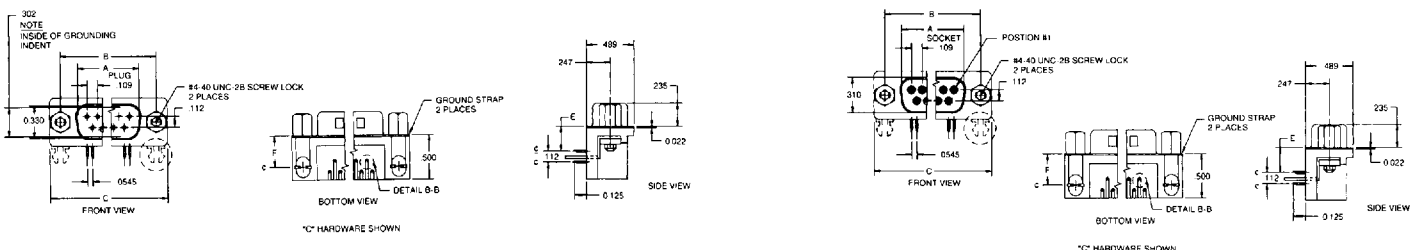
**DIMENSIONS: .590 FOOTPRINT**



Front, Bottom, & Side Views - Plug

Front, Bottom, & Side Views - Receptacle

**DIMENSIONS; .318 FOOTPRINT**



Front, Bottom, & Side Views - Plug

Front, Bottom, & Side Views - Receptacle